

ABSTRACT OF THE DISCLOSURE

Disclosed is a microsize driving device in which falling of track proteins from an arrangement of motor protein molecules arranged on a linear track groove provided on a substrate is suppressed and utilization of kinetic energy of track proteins as a driving energy is made possible by controlling the moving direction to a single direction. Namely, provided is a microsize driving device which comprises a substrate, an arrangement of motor protein molecules such as, for example, kinesin molecules deposited on the bottom of a linear track groove provided thereon and track proteins such as, for example, microtubules disposed thereon and is characterized in that the said linear track groove has side surfaces shaped in such a structure as to permit a linear movement of the track proteins moving in a certain specific direction but to inhibit the track proteins moving in the reverse direction thereto causing reversion for the movement in the above mentioned specific direction.